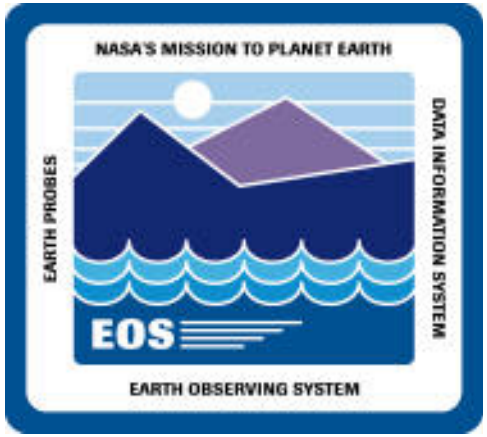


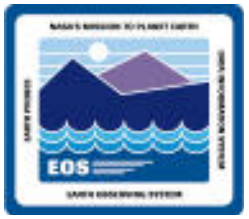

# Pull Scenario Overview

## George Percivall

**gperciva@eos.hitc.com**

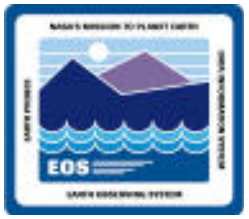
**31 October 1995**

# Pull Scenario Overview – Agenda




- **Characterization of Pull Side Scenarios**
- **Pull Side Design Drivers**
- **Pull Side Scenario Identification**
- **Pull User Views and Pull Side Design Elements**
- **Scenario Mapping to Design Drill Downs**

# Characterization of Pull Scenarios




**Pull scenarios cover functions to support Science End User**

- **In finding EOSDIS services**
- **Reviewing the ECS holdings**
- **Requesting ECS data and services**

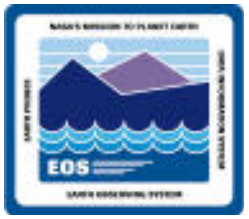
**User Pull Scenarios are diverse and variable**

- **Workflow will vary across the population of users**
- **Workflow will vary for a user over time**
- **No canonical  user scenario**
- **Design must not require a standard scenario**

**Purpose of the pull side design to obviate need for a nominal user scenario**

- **Pull side design drivers identified next**
- **Based on design drivers a list of scenarios was been developed.**

# Pull Side Design to Accommodate and Support User Workflow Diversity




**User interface which supports variable work flows**

**Access to multiple providers using a single Client**

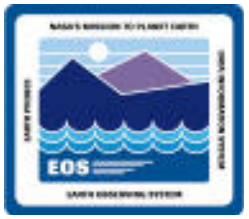
**Services support seamless access for user: data are data, data are services, state recovery**

**Design Themes for User Flexibility**

- **Multiple Entry Points**
- **Non-Hierarchical Access to Data by Client**
- **Extensible Client/Provider Architecture**
- **Multi-Layer Distributed Query Architecture**
- **Seamless Access to Data and Services**
- **URs you can take home**
- **Session Management**
- **Subscriptions**

**Design Features**

# ECS Pull Scenarios Demonstrate Design Drivers




1. **Advertising Service**

   **Demonstrates how advertising service supports access to Extended Data Providers**

2. **Quick Access**

   **Demonstrates quick access to a subsetting service without separate query and subsetting service request steps**

3. **Coincident Search**

   **Demonstrates space and time coincident search which requires DIM to plan and execute a query across several sites**

4. **DAR and Associated Product Requests**

   **Development of ASTER Data Acquisition Request (DAR) through interaction with GDS and related processing-on-demand for Level 2 products**

5. **Resumption of a Disconnected Session**

   **Demonstrates how a user will resume an unintentionally disconnected session through use of a Universal Reference (UR) for the session**

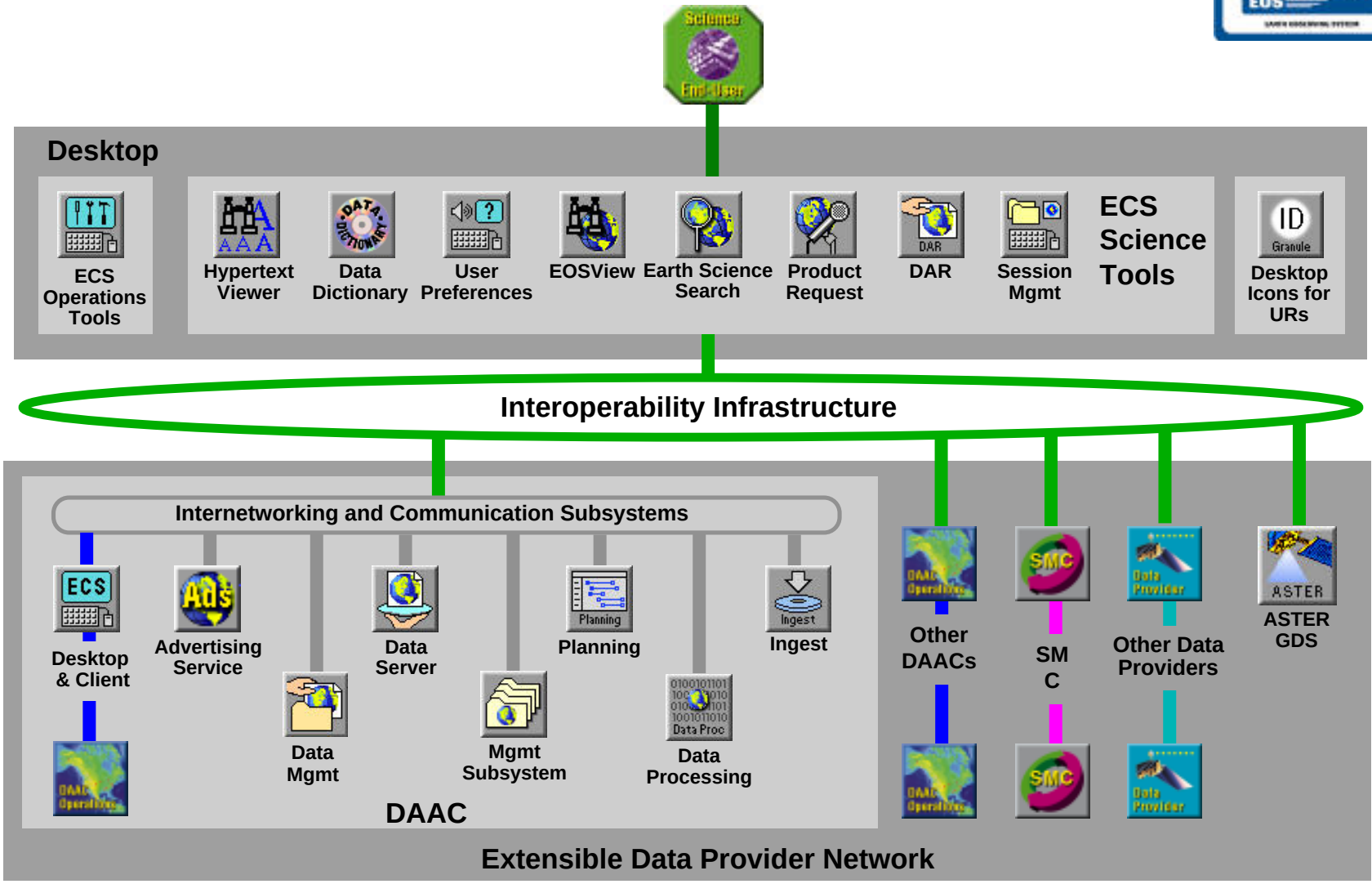
# Mapping Design Features to Scenarios

| Pull Side Design Features | User Pull Scenarios | | | | |
|---|---|---|---|---|---|
| | 1. Advertising Service | 2. Quick Access | 3. Coincident Search | 4. DAR and PRs | 5. Disconnected Session |
| **Multiple Workflows** | | From Advertising to Services | Direct to Query Tool | Direct to DAR Tool | |
| **Non-Hierarchical Access to Data and Services** | | Pass context between tools | | Pass DAR to processing request | |
| **Extensible User/Provider Architecture** | Access to external providers | | | Access to ASTER GDS | |
| **Multi-Layer Distributed Query Architecture** | | | Coincident query across sites | | Query direct to a Data Sever |
| **Seamless Access to Data and Services** | | Combined access to data and services | | | |
| **URs you can take Home** | | Service as a desktop icon | | | Passing a UR for a session |
| **Session Management** | | | Statusing a query session | | Resume a disconnected session |
| **Subscriptions** | Support operations | | | Process ASTER data on arrival | |

# Pull Scenarios and the Four Views

| Points of View | User Pull Scenarios | | | | |
|---|---|---|---|---|---|
| | 1. Advertising Service | 2. Quick Access | 3. Coincident Search | 4. DAR and PRs | 5. Disconnected Session |
| Science User | Yes | Yes | Yes | Yes | Yes |
| DAAC Operations | Approval of Advertisement | Distribution via Media | | Ingest of ASTER Data on media | Finding a disconnected session |
| Data Providers: External to DAAC | Submitting an Advertisement | | | ASTER GDS | |
| SMC | | Billing for Media | | | |

# Pull Side System Design



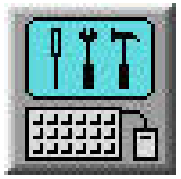
# ECS Client Tools (1 of 2)

| | Name | Description |
|---|---|---|
| Hypertext Viewer | Hypertext Viewer | HTML Viewer Application |
| Data Dictionary | Data Dictionary Tool | Provides search and access of data definitions stored in the data dictionary service. |
| User Preferences | User Preferences Tool | Allows user to specify default views of the interfaces as well as other settable attributes |
| EOSView | Visualization (EOSView) | HDF-EOS Data Viewer and Analysis Application |
| Earth Science Search | Earth Science Search Tool | Submits and views results of searches to ECS components, such as DIMs, LIMs, SDSRVs, DDICT, etc. |

# ECS Client Tools (2 of 2)

| | Name | Description |
|---|---|---|
| Product Request | Product Request Tool | Order data either electronically or on media. |
| DAR | Data Acquisition Request Tool | Provides the ability to submit ASTER DARs to the ASTER GDS. |
| Session Mgmt | Session Management Tool | Allows the user to suspend, resume, terminate, or put sessions in the background as well as monitor status of requests currently being processed. |
| Other Tools | E-mailer Tool | Used to send desktop objects via electronic mail |
| | News Reader Tool | USENET news reader to read ECS bulle-tin board (In addition to hypertext viewer tool) |

# ECS Operations Tools



## Custom X/Motif

- Ingest
- Planning
- Data Processing
- Data Server
- Data Management
- Interoperability (Advertising Service)
- Mgmt Services

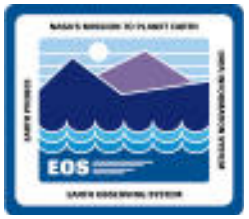
## Custom HTML

- Ingest
- Data Server
- Interoperability (Advertising Service)
- Mgmt Services
- Communication

## COTS/OTS

- Open View
- Mountainview
- Tivoli Mgmt. Env.
- ARS (Remedy)
- Office Automation
- Clearcase
- Code Checkers
- IDL Visualization
- DCE
- Unix
- DDTS
- AutoXpert
- Autosys
- Delphi
- Sybase
- Illustra
- AMASS
- Web Server
- Other

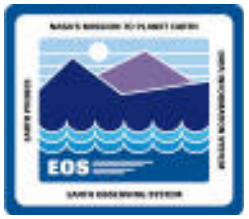
# Drill Downs for Pull Side Scenarios




| | User Pull Scenarios | | | | |
|---|---|---|---|---|---|
| **Pull Drill Downs** | 1. Advertising Service | 2. Quick Access | 3. Coincident Search | 4. DAR and PRs | 5. Disconnected Session |
| **Pull Drill Down Part I** | | | | | |
| Release B Client | √ | √√√ | √ | √ | √ |
| Universal Reference | √ | | √ | | √√√ |
| Advertiser | √√√ | √ | √ | | |
| Data Management | | √ | √√√ | | |
| **Pull Drill Down Part II** | | | | | |
| User Registration/User Profile | | | | | √ |
| Billing and Accounting | | √√√ | | | |
| Illustra (ORDMBS) | | | √ | | |
| Earth Science Query Language | | | √ | | |
| Emerging Client Technology | | | √ | | |
| **Pull Drill Down Part III** | | | | | |
| Session Management | | √ | √ | √ | √√√ |
| On Demand Processing Requests | | | | √√√ | |
| Subsetting Service | | √√√ | | | |
| Request Tracking | | √ | √ | | √ |
| Subscriptions | √ | | | √√√ | |

√ = Drill down topic is part of scenario
√√√ = Scenario is discussed in drill down

# ECS Pull Scenarios

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   **Demonstrates quick access to a subsetting service without a separate query and subsetting service request steps**

3. **Coincident Search - T. Codella**

   **Demonstrates space and time coincident search which requires DIM to plan and execute a query across several sites**

4. **DAR and Associated Product Requests - K. Bryant**

   **Development of ASTER Data Acquisition Request (DAR) through interaction with GDS and related processing-on-demand for Level 2 products**

5. **Resumption of a Disconnected Session - L. Prabhala**

   **Demonstrates how a user will resume an unintentionally disconnected session through use of a Universal Reference (UR) for the session**